

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the "B" Class divisions, fire integrity

with type designation(s)
Wetunit in Aluminium B15

Issued to
Norac AS
Arendal, Norway

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397**,
item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2/3.4 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1581

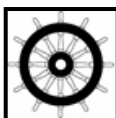
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-10-09**.

Issued at **Høvik** on **2019-10-10**

DNV GL local station:
Kristiansand S

Approval Engineer:
Joanna Kowalczuk



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Job Id: **344.1-000597-35**
Certificate No: **MEDB00005VS**

Product description

"Wetunit in Aluminium B15"

Wet room unit composed of walls and ceiling constructed from 1 mm aluminium plates on the inside, 25 mm Rockwool SeaRox SL 480 (density 200 kg/m³) and 0.7 mm galvanized steel on the outside. Insulation is glued to the metal surfaces. The floor consists of tiles over 10 mm epoxy screed on a 4 mm aluminium plate and 25 mm Rockwool Searox SL 440 on the underside. 2 mm aluminium sheets with 14 mm Rockwool B250 formed the base of the wet unit.

Galvanized H-, L- and U-profiles were used in corners and connections.

For further details, see Type Examination documentation below.

Application/Limitation

Approved for use as sanitary units with B-15 fire rating in walls, bottom and ceiling.

Max. size of aluminium wet room unit: 1950 x 1950 x 2000 mm (W x B x H).

The unit is to be fitted with a B-15 approved door, or C-class door if the Wetunit is installed within the boundaries of B-15 class divisions.

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

Each product is to be supplied with its manual for installation and maintenance.

Type Examination documentation

Test report No. 150070-01 dated 7 May 2015 from SP Fire Research AS, Trondheim, Norway.

Drawing No. "Drawing 1, Wetunit Aluminium" Rev. No.3, dated 18 September 2014, from the manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, MED Mark of Conformity and USCG approval number (if applicable).